STATE OF UTAH SOUTHERN UTAH UNIVERSITY



State of Utah-Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

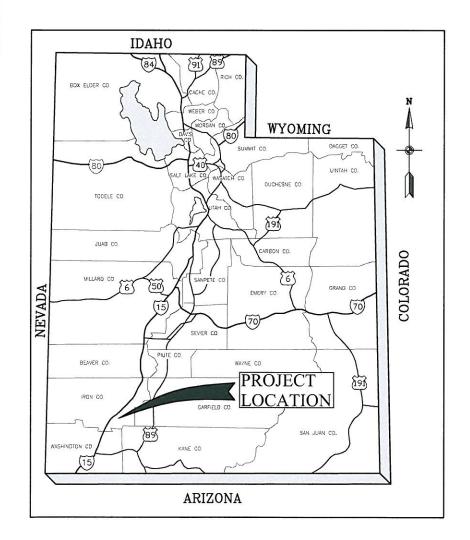
4110 State Office Building - Salt Lake City, Utah 84114 - 801-538-3018



INTRAMURAL SOCCER FIELDS

DFCM PROJECT # 10058730

DRAWINGS FOR CONSTRUCTION OF INTRAMURAL SOCCER FIELDS SOUTHERN UTAH UNIVERSITY

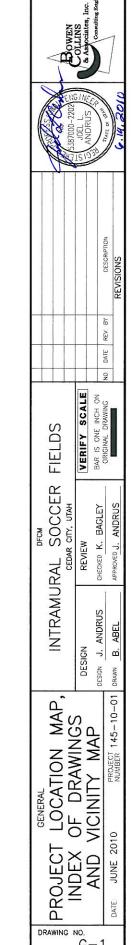


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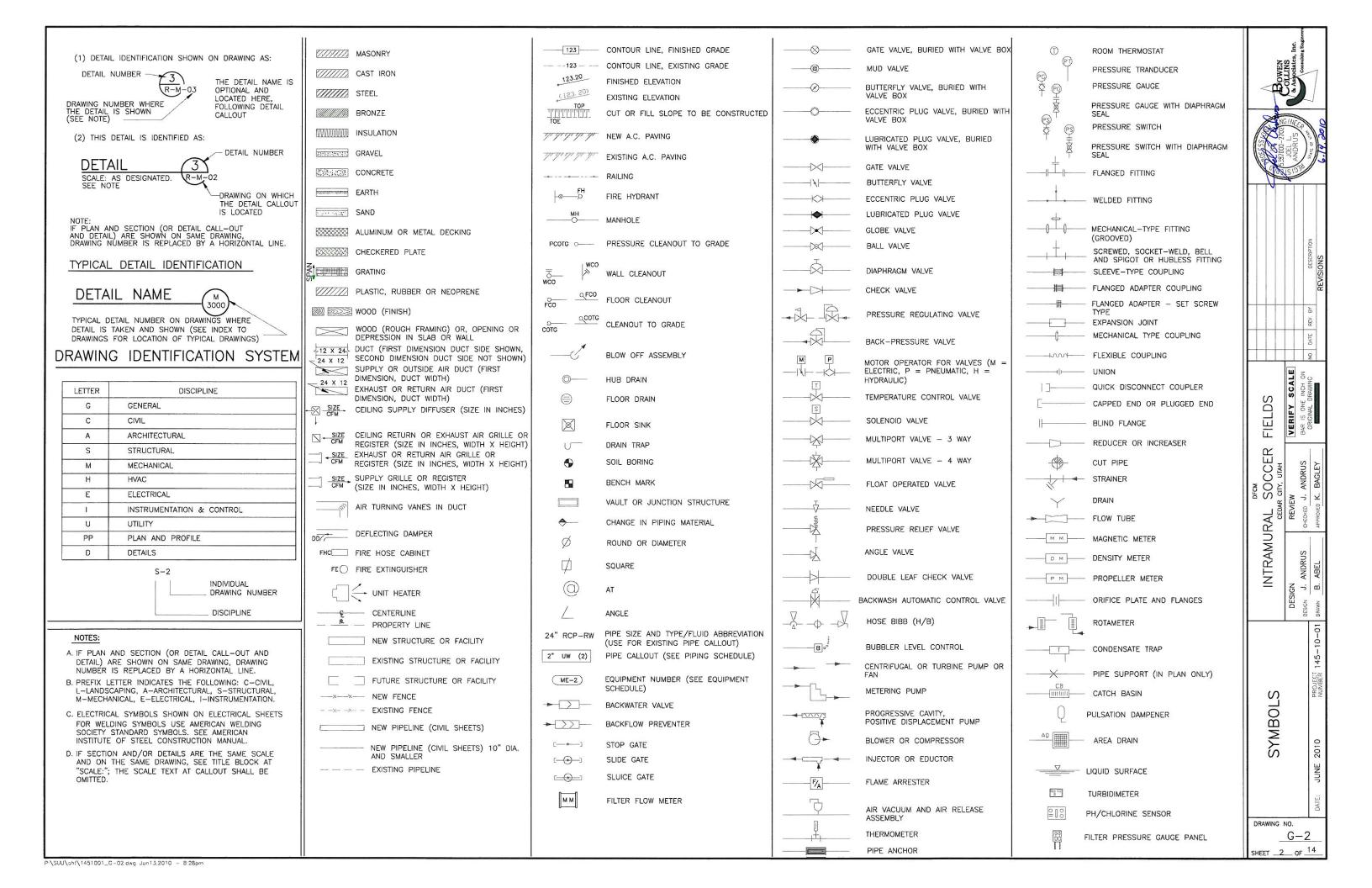


PROJECT LOCATION MAP

VICINITY MAP



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0	AT	CONC	CONCRETE, CONCENTRIC	FEXT	FIRE EXTINGUISHER	LWL	LOW WATER LEVEL	PVI	POINT OF VERTICAL INTERSECTION	1
AASHT0	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS	COND	CONDENSER, CONDENSATE CONNECTION	FF F TO F	FLAT FACE, FAR FACE, FINISH FLOOR FACE TO FACE	LWR	LOWER	PW	POTABLE WATER	V
AB	ANCHOR BOLT	CONST	CONSTRUCTION, CONSTRUCT	FG	FINISH GRADE, FLOW GLASS		Marie Colores National Color National Colores Colores			VAR
ABBR ABS	ABBREVIATION ACRYLONITRILE—BUTADIENE—STYRENE	CONT	CONTINUED, CONTINUOUS, CONTINUATION COORDINATE	FH FLR	FIRE HYDRANT FLOOR	M MACH	METER, MALE (PIPE THREAD) MACHINE	RAD	RADIUS REINFORCED CONCRETE	VC VCP
AC	ASPHALTIC CONCRETE OR ALTERNATING	COTG	CLEAN-OUT TO GRADE	FL	FLOW LINE	MAN	MAGNETIC	RCP	REINFORCED CONCRETE PIPE	VERT
AC1	CURRENT OR ACTIVATED CARBON AMERICAN CONCRETE INSTITUTE	COP	COPPER COUPLING	FLEX FLG	FLEXIBLE FLANGE	MAN MATL	MANUAL MATERIAL	RD RDCR	ROOF DRAIN OR ROAD REDUCER, REDUCING	VOL VTC
ACP ADDL	ASPHALTIC CONCRETE PAVEMENT	CPVC	CHLORINATED POLYVINYL CHLORIDE	FND	FOUND	MAX	MAXIMUM	RECIRC RED	RECIRCULATION	VTR VSS
ADJ	ADDITIONAL ADJACENT OR ADJUSTABLE	CTRD	CAST STEEL OR CAUSTIC SODA CENTERED	FNSH FO	FINISH FIBER OPTIC	MB MCC	MACHINE BOLT MOTOR CONTROL CENTER	REF	REDUCING REFERENCE, REFER	V33
AER AFF	AERATION ABOVE FINISH FLOOR	CTR	CENTER COUNTERSUNK	FS	FLOOR SINK	MECH MEMB	MECHANICAL, MECHANISM	REG REINF	REGULATING, REGISTER REINFORCE, REINFORCED	w
AGGR	AGGREGATE	CU FT	CUBIC FOOT	G	GAS	MET	MEMBRANE METAL	REQD	REQUIRED	W/ W/O
AH AIR CONT	AIR HANDLER AIR CONDITIONING	CU IN	CUBIC INCH CUBIC YARD	GA GAL	GAGE, GAUGE GALLON	MFR MG	MANUFACTURER MILLION GALLONS	REV RF	REVISION ROOF, RAISED FACE	WC
AISC	AMERICAN INSTITUTE OF STEEL	CULV	CULVERT	GALV	GALVANIZED	MGD	MILLION GALLONS PER DAY	RND	ROUND	WCO WD
AL	CONSTRUCTION ALUMINUM, ALUM	CV	CHECK VALVE COLD WATER	GEN GFI	GENERATOR GROUND FAULT INTERRUPTER	MH MI	MANHOLE, MONORAIL HOIST MALLEABLE IRON	RPM RP	REVOLUTIONS PER MINUTE RADIUS POINT	WH
ALTN	ALTERNATIVE, ALTERNATE	CWO	CHAIN WHEEL OPERATOR	GI	GALVANIZED IRON	MID	MIDDLE	RST	REINFORCING STEEL, RESET	WS WSP
ANOD ANSI	ANODIZED AMERICAN NATIONAL STANDARDS INSTITUTE	CYL	CYLINDER	GIS GL	GEOGRAPHIC INFORMATION SYSTEM GLASS	MIL MIN	1/1,000 INCH MINIMUM OR MINUTE	RT RV	REGULATING TANK, RADIOGRAPHIC, RIGHT ROOF VENT	WSTP
APVD APPROX	APPROVED APPROXIMATE	d DBA	PENNY DEFORMED ANCHOR	GLAZ GLV	GLAZING GLOBE VALVE	MISC	MISCELLANEOUS	R/W RW	RIGHT OF WAY RAW WATER	WT WWM
ARCH	ARCHITECTURAL	DBL	DOUBLE	GND	GROUND	MJ MTL	MECHANICAL JOINT METAL OR MATERIAL	I KW	NAW WAIEN	
ARV ASME	AIR RELEASE VALVE AMERICAN SOCIETY OF MECHANICAL	DC DET	DIRECT CURRENT DETAIL	GPD GPH	GALLONS PER DAY GALLONS PER HOUR	MTG MTR	MOUNTING	S	SOUTH, SECOND	XMTR
400000000000000000000000000000000000000	ENGINEERS	DEG	DEGREE	GPM	GALLONS PER MINUTE	MPH	MOTOR MILES PER HOUR	SA	SAMPLE, SAMPLE LINE	XS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL	DEMO	DEMOLITION, DEMOLISH DUCTILE IRON, DROP INLET	GR GR BRK	GRADE GRADE BREAK, GRADE CHANGE	MWS	MAXIMUM WATER SURFACE	SR SCFM	SUPPLY AIR REGISTER STANDARD CUBIC FEET PER MINUTE	VD
ASSY	ASSEMBLY	DIA	DIAMETER	GRTG	GRATING	N	NORTH	SCH SD	SCHEDULE STORM PRAIN	YD YR
AUTO AUX	AUTOMATIC AUXILIARY	DIAG DIAPH	DIAGONAL DIAPHRAGM	GV GSP	GATE VALVE GALVANIZED STEEL PIPE	NAVD NBS	NORTH AMERICAN VERTICAL DATUM NATIONAL BUREAU OF STANDARDS	SECT	STORM DRAIN SECTION	101090
AVAR	AIR VACUUM AND AIR RELEASE VALVE	DIFF DIM	DIFFUSER	GYP	GYPSUM BOARD	NC	NORMALLY CLOSED	SHT	SHEET SIMILAR	
AWS AWWA	AMERICAN WELDING SOCIETY AMERICAN WATER WORKS ASSOCIATION	DIP	DIMENSION DUCTILE IRON PIPE	н	HEIGHT	NE NEC	NORTHEAST NATIONAL ELECTRIC CODE	SLP	SLOPE	
BC	BEGIN CURVE, BOLT CIRCLE	DISCH	DISCHARGE DIRECTION	HAS	HEADED ANCHOR STUD	NEMA	NATIONAL ELECTRICAL MANUFACTURES	SP SPEC	SPACING, STATIC PRESSURE SPECIFIED, SPECIFICATION	
BF	BLIND FLANGE, BUTTERFLY VALVE	DIST	DISTANCE	HB HD	HOSE BIBB HUB DRAIN	NF	ASSOCIATION NEAR FACE	SPECS	SPECIFICATIONS	
BFP BFV	BACK FLOW PREVENTER BUTTERFLY VALVE	DIV	DIVISION LOADING CONDITION FOR RCP	HDPE	HIGH DENSITY POLYETHYLENE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SPG SPKR	SPACING SPEAKER	
BHD	BULKHEAD	DMPR	DAMPER	HDR HDW	HEADER HARDWARE	NIC NO	NOT IN CONTRACT NUMBER OR NORMALLY OPEN	J. KIK	JI EARLY	
BHP BLDG	BRAKE HORSEPOWER BUILDING	DOT	DOWN, DECANT DEPARTMENT OF TRANSPORTATION	HEX	HEXAGONAL HANGER	NOM NPT	NOMINAL NATIONAL PIPE THREAD			
BLK	BLACK OR BLOCK	DP	DAMP PROOFING	HGR HM	HOLLOW METAL	NS	NEAR SIDE	SPLY SPRT	SUPPLY SUPPORT	
BLKG BLT	BLOCKING BOLT	DR DS	DOOR, DRAIN DRENCH SHOWER & EYE WASH,	HORIZ HP	HORIZONTAL HORSEPOWER, HIGH PRESSURE, HEAT	NTS NW	NOT TO SCALE NORTHWEST	SQ	SQUARE	
ВМ	BEAM, BENCH MARK		DOWNSPOUT	70793	PUMP	'`''	HORHWEST	SQ FT SR	SQUARE FOOT SUPPLY REGISTER	
BO BOT	BLOW-OFF ASSEMBLY, BLOW-OFF BOTTOM	DWG DWL	DRAWING DOWEL	H/P, HPT HR	HIGH POINT HEATING RETURN, HOUR, HOSE RACK	ос	ON CENTER, OVER-CROSSING	SS	SANITARY SEWER, SERVICE SINK STAINLESS STEEL	
BPS	BOOSTER PUMPING STATION	100000000000000000000000000000000000000		HS	HIGH STRENGTH	OD	OUTSIDE DIAMETER, OVERALL DIMENSION	SST	STATION	
BPV BRK	BACK PRESSURE VALVE BRICK	E(UG)	ELECTRICAL (UNDERGROUND)	HTG HTR	HEATING HEATER	OF OH	OUTSIDE FACE OVERHEAD	STD	STANDARD STIFFENER	
B & S BTWN	BELL & SPIGOT BETWEEN	E(OH)	ELECTRICAL (OVERHEAD POWER)	HV	HOSE VALVE	OPER	OPERATOR, OPERATING	STL	STEEL	
BTU	BRITISH THERMAL UNIT	EA EA	EAST EACH	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	OPNG OPP	OPENING OPPOSITE	STRL SYM	STRUCTURAL SYMBOL	
BUR BVC	BUILT-UP ROOFING BEGIN VERTICAL CURVE	EB FC	EXPANSION BOLT	HWL	HIGH WATER LEVEL	ORIG	ORIGINAL	SYMM	SYMMETRICAL	
BW	BACK WASH, FILTER BACKWASH	ECC	END CURVE ECCENTRIC	HWO HYD	HANDWHEEL OPERATED HYDRANT, HYDRAULIC	OVHD	OVERHEAD	SYS	SYSTEM	
1	~	EF EFF	EACH FACE, EXHAUST FAN	1	3000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	OZ	OUNCE			
C	CENTIGRADE OR CELSIUS	EG	EFFLUENT EXISTING GRADE	ICFM	INLET CUBIC FEET PER MINUTE	PV	PAVEMENT	T	THICKNESS, TOP, TOILET	
CAB CAP	CABINET CAPACITY	ELEV ELEV	ELEVATION, ELBOW ELEVATION	ID IF	INSIDE DIAMETER INSIDE FACE	PC	PORTLAND CEMENT, POINT OF CURVE OR	T&B	TOP AND BOTTOM	
CARV	COMBINATION AIR RELEASE VALVE	ELEC	ELECTRICAL, ELECTRONIC	IN IN	INCH	PCC	PRIMARY CLARIFIER PORTLAND CEMENT CONCRETE	T&G TAN	TONGUE AND GROOVE TANGENT	
CB	CATCH BASIN CENTER TO CENTER	EMB EMER	EMBEDMENT EMERGENCY	IN LB	INCH-POUND INFLUENT	PCF	POUNDS PER CUBIC FOOT	TBM	TEMPORARY BENCH MARK	
CCP CD	CONCRETE CYLINDER PIPE CEILING DIFFUSER CHEMICAL DRAIN	ENCL	ENCLOSURE	INSUL	INSULATING	PG PE	PRESSURE GAUGE PLAIN END, POLYELECTROLYTE POLYMER,	TBC TC	TOP OF CATCH BASIN TOP OF CURB, TOP OF CONCRETE	
	AND VENT	ENG ENGR	ENGINE ENGINEER	IE INVT	INVERT ELEVATION INVERT		POLYETHYLENE	TDH TECH	TOTAL DYNAMIC HEAD TECHNICAL	
CER CFH	CERAMIC CUBIC FEET PER HOUR	EP	EDGE OF PAVEMENT	IPS	IRON PIPE SIZE	pH Pl	HYDROGEN ION CONCENTRATION PRESSURE INDICATOR, POINT OF INTERSECTION	TEL	TELEPHONE	
CFM	CUBIC FEET PER MINUTE	EQL SP	EQUALL EQUALLY SPACED	IRR	IRRIGATION	PJF	PREMOLDED JOINT FILLER	TEMP THK	TEMPERATURE, TEMPORARY THICK	
CFS CG	CUBIC FEET PER SECOND CHLORINE GAS	EQUIP	EQUIPMENT ETCETERA	JT	JOINT	PL PLYWD	PLATE, PROPERTY LINE, PLACE PLYWOOD	THR'D	THREADED	
CHBD	CHALKBOARD	ETC EVAP	EVAPORATOR			PM	PUMP, PROPELLER METER	TK T.O.	TANK TOP OF	
CHEM CHG	CHEMICAL CHANGE	EVC EW	END VERTICAL CURVE EACH WAY, EYE WASH	K KG	KELVIN, KILO OR THOUSAND POUNDS KILOGRAM	PI PT	POINT OF BEGINNING POINT OF TANGENT	TOG	TOP OF GRADE	
	CHECKERED PLATE	EXH	EXHAUST	KV	KILOVOLT	PJF PL	PREMOLDED JOINT FILLER PLATE, PROPERTY LINE, OR PLACE	TP TYP	TELEPHONE POLE, TURNING POINT TYPICAL	
CI CIP	CAST IRON CAST IRON PIPE	EXP ANR EXP JT	EXPANSION BOLT, ANCHOR EXPANSION JOINT	KW KWH	KILOWATT KILOWATT HOUR	PP	POTASSIUM PERMANGANATE			
CISP CJ	CAST IRON SOIL PIPE CONSTRUCTION JOINT	EXIST	EXISTING	20 MARIA (2015)		PPD PPH	POUNDS PER DAY POUNDS PER HOUR	UBC	UNIFORM BUILDING CODE	
	COMPLETE JOINT PENETRATION	EXT	EXTERIOR, EXTENSION, EXTERNAL	L LAB	LEFT OR LITER LABORATORY	PPM	PARTS PER MILLION	UD UG	UNDERDRAIN UNDERGROUND	
CL	CHLORINATOR, CHAIN LINK, CLEARANCE, CENTERLINE OR CHLORINE			LAV	LAVATORY	PR PRC	PAIR POINT OF REVERSE CURVE	UH	UNIT HEATER	
CLR	CLEAR			LB LC	POUND LENGTH OF CURVE	PREFAB	PREFABRICATED	UL UNO	UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED	
CLST	CEMENT LINED STEEL PIPE CENTIMETER	F	FARRENHEIT, FACE	LF	LINEAR FEET	PRI PRV	PRIMARY PRESSURE REGULATING/REDUCING VALVE	HEDD	U.S. BUREAU OF RECLAMATION	
CML & C	CEMENT MORTAR LINED AND COATED	FAB FB	FABRICATION, FABRICATE, OR FABRICATED FLAT BAR	LG LH	LENGTH OR LONG LEFT HAND	PS	PRESSURE SWITCH, PUMP STATION			
CMP CMU		FC	FLEXIBLE COUPLING	LL LLV	LIVE LOAD LONG LEG VERTICAL	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH			12
CO	CLEANOUT	FCA FCO	FLANGE COUPLING ADAPTER FLOOR CLEANOUT	LOL	LENGTH OF LINE	PSIG PT	POUNDS PER SQUARE INCH GAUGE POINT OF TANGENT,			
COL COMM	COLUMN COMMUNICATION	FD FDN	FLOOR DRAIN FOUNDATION	LPT LR	LOW POINT LONG RADIUS	PT	PRESSURE TRANSDUCER			
COMB	COMBINED	FDR	FEEDER	LT	LIGHT, LEFT	PTDF	PRESSURE TREATED DOUGLAS FIR POLYVINYL CHLORIDE			
				LVL	LEVEL	PUE	PUBLIC UTILITY EASEMENT			
P:\\SUU\sht\\145:0	01_G~05.dwg_dun15,2010 - 8.29pm									

/ /AR /C /CP /ERT /OL /TC /TR /SS	VALVE, VENT, VOLT, VACUUM VARIES, OR VARIABLE VERTICAL CURVE VITRIFIED CLAY PIPE VERTICAL VOLUME VENT THROUGH CEILING VENT THROUGH ROOF VOLATILE SUSPENDED SOLIDS		-	& Associates, Inc.	
W W/O W/O WCO WD WH WS WSP WSTP WT WWM	WEST, WASTE, WIDE FLANGE (BEAM) WITH WITHOUT WATER COLUMN OR WATER CLOSET WALL CLEANOUT WOOD WATER HEATER WATER STOP, WATER SURFACE WELDED STEEL PIPE WATER STOP WEIGHT WELDED WIRE MESH		Service Servic	JOS JAN	ON SAME OF STATE OF S
XMTR XS	TRANSMITTER EXTRA STRONG				DESCRIPTION REVISIONS
YD YR	YARD YEAR				RE.
					DATE REV
					981
			SOCCER FIELDS	SAR IS ONE INCH ON	ORIGINAL DRAW
		DFCM	œ	REVIEW CHECKED K. BAGLEY	
			INTRAMURAL	DESIGN DESIGN J. ANDRUS	DRAWN B. ABEL
		GENERAL	() () ()	ABBREVIATIONS	PROJECT 145-10-01 DRAWN B. ABEL
		GEN		ADDREV	JUNE 2010
		DF	RAWING	[№] . G-3	DATE
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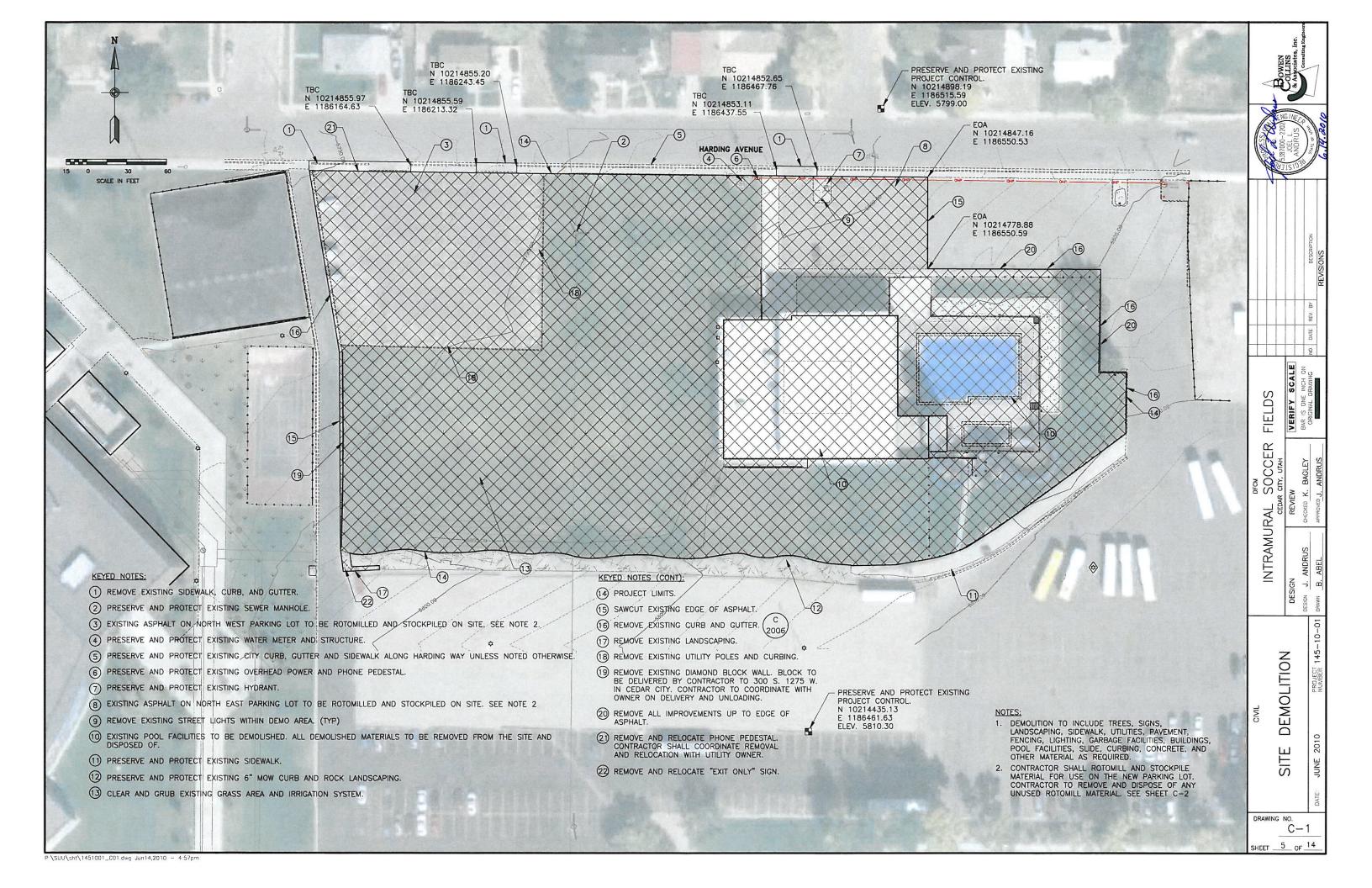
GENERAL NOTES:

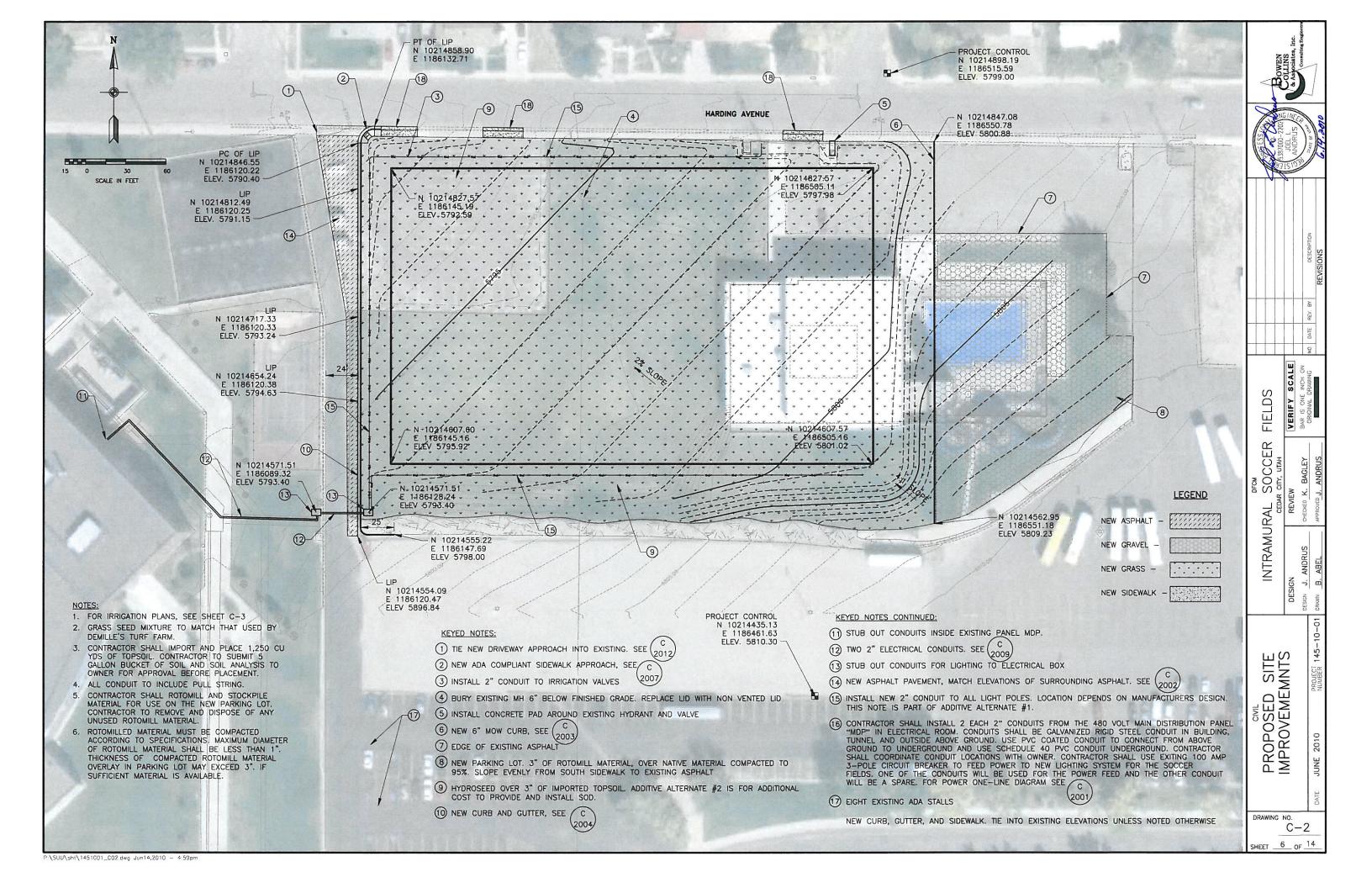
- 1. <u>EROSION AND SEDIMENTATION CONTROL</u>: CONTRACTOR SHALL CONSTRUCT BERMS AND/OR DRAINAGE DITCHES AS NEEDED TO KEEP STORM RUNOFF FROM ENTERING EXISTING CONSTRUCTION EXCAVATIONS OR INTERFERING WITH CONSTRUCTION EFFORTS.
- CHANGES: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE ENGINEER AND THE OWNER.
- SYMBOLS: SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE PLANS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
- 4. EXISTING FACILITIES: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR, UNLESS NOTED OTHERWISF.
- 5. EASEMENTS: THE CONTRACTOR SHALL BE REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE ESTABLISHED RIGHTS—OF—WAY AND EASEMENTS AS SHOWN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, AND EXCAVATED MATERIAL AND BACKFILL STORAGE. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS FROM INDIVIDUAL PROPERTY OWNERS.
- 6. <u>UTILITY LOCATIONS</u>: EXISTING UTILITIES ARE APPROXIMATELY LOCATED. EXISTING UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF, AND PRESERVING, ALL UTILITIES INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TWO (2) WEEKS IN ADVANCE OF UTILITY CONFLICTS REQUIRING RELOCATION OF MAIN LINES, AND ONE (1) WEEK IN ADVANCE OF CONFLICTS REQUIRING RELOCATION OF SERVICE LATERALS.
- 7. SERVICE CONNECTIONS: THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SERVICE LINES FOR GAS, SEWER, WATER, IRRIGATION, POWER, STORMDRAIN AND OTHER UTILITIES, AND REPAIRING DAMAGE TO SUCH LINES AS A RESULT OF THE CONTRACTOR'S OPERATIONS. IN GENERAL, SERVICE CONNECTIONS FOR UTILITIES ARE NOT SHOWN ON THE
- 8. EXCAVATION SAFETY: EXCAVATION LIMITS SHOWN IN THE DETAILS ARE GRAPHICAL REPRESENTATIONS ONLY, AND DO NOT REPRESENT ACTUAL EXCAVATION LIMITS OR SAFE TRENCH CONDITIONS REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR PROTECTION OF WORKERS.
- 9. THRUST RESTRAINT: CONTRACTOR SHALL PROTECT ADJACENT PRESSURE PIPELINES AND PROVIDE TEMPORARY THRUST RESTRAINT AS NECESSARY DURING CONSTRUCTION. ALL NEW PRESSURE PIPE AND FITTINGS SHALL HAVE THRUST RESTRAINED JOINTS, THRUST BLOCKS, THRUST TIES OR OTHER APPROVED RESTRAINT. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURE SPECIFIED.
- 10. <u>SURVEY MONUMENTS</u>: CONTRACTOR SHALL NOT DESTROY, REMOVE, OR DISTURB ANY EXISTING SURVEY MONUMENTS WITHOUT AUTHORIZATION OF CONTROLLING AGENCY. NO PAVEMENT CUTTING OR REMOVAL SHALL BEGIN UNTIL ALL SURVEY MARKERS OR MONUMENT POINTS THAT HAVE THE POTENTIAL OF BEING DISTURBED BY THE CONSTRUCTION OPERATIONS HAVE BEEN PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR. ALL SURVEY MONUMENTS OR POINTS DISTURBED BY THE CONTRACTOR SHALL BE ACCURATELY RESET BY A REGISTERED LAND SURVEYOR AFTER ALL RESTORATION AND RESURFACING HAS BEEN COMPLETED AT THE CONTRACTORS EXPENSE.
- 11. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SPECIFIED.

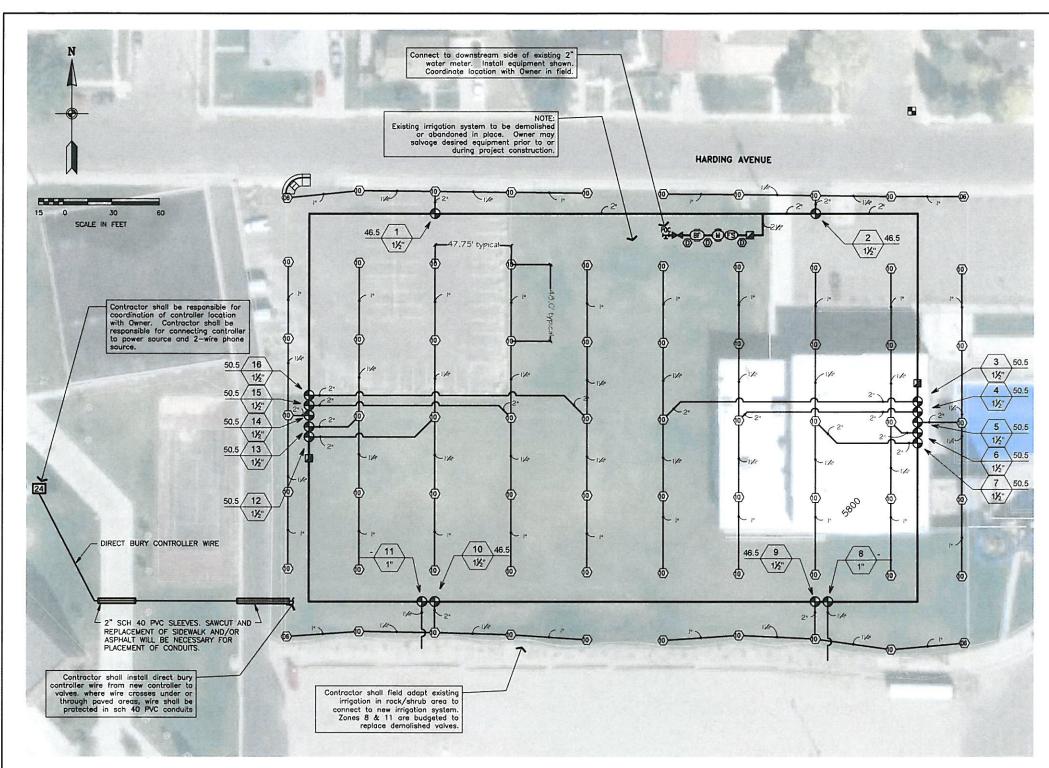
- 12. CONTRACTOR SHALL BACKFILL TRENCH AREAS WHERE UTILITIES CROSS UNDER EXISTING BURIED UTILITIES WITH FLOWABLE FILL (CLSM TYPE O MATERIAL) IN ACCORDANCE WITH SECTION 02300 IF STANDARD MECHANICAL COMPACTION EQUIPMENT CAN NOT ADEQUATELY COMPACT BACKFILL.
- 13. <u>OVER HEAD POWER</u>: CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS AS REQUIRED FOR OPERATING CONSTRUCTION EQUIPMENT BENEATH HIGH VOLTAGE POWER LINES.
- 14. IF THE CONTRACTOR CHOOSES TO WORK ON THE PROJECT WHEN HOT MIX ASPHALT IS NOT AVAILABLE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY ASPHALT SURFACING MATERIAL WHEN PERMANENT ASPHALT BECOMES AVAILABLE, THE CONTRACTOR SHALL REMOVE THE TEMPORARY ASPHALT, FURNISH AND INSTALL THE PERMANENT ASPHALT AT NO ADDITIONAL COST TO THE OWNER.
- 15. CONTRACTOR SHALL ADJUST GRADE OF NEW CLEAN OUT RIMS, VALVE BOXES, INLET GRATES, AND MANHOLES TO MATCH ELEVATIONS OF PROPOSED GRADES.
- 16. CONTRACTOR SHALL PLUG ENDS OF ABANDONED PIPES WITH CONCRETE.
- 17. CONTRACTOR SHALL IMPLEMENT MEASURES DURING CONSTRUCTION THAT WILL PREVENT RUNOFF, DEBRIS AND SEDIMENT FROM ENTERING UNFINISHED PORTIONS OF THE NEW PIPE DURING CONSTRUCTION.
- 18. CONTRACTOR SHALL PREPARE AND SUBMIT STORMWATER POLLUTION PREVENTION PLAN TO THE GOVERNING ENTITY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE APPROVED PLAN.
- CONTRACTOR MAY DISPOSE OF DEBRIS FROM THIS PROJECT AT CITY LANDFILL LOCATED AT 1000 N. LUND HIGHWAY IN CEDAR CITY. LANDFILL TIPPING FEES WILL BE WAIVED.
- 20. HAZARDOUS MATERIAL FROM CITY POOL HAS BEEN REMOVED PRIOR TO THIS PROJECT. CONTRACTOR WILL NOT BE RESPONSIBLE FOR ADDITIONAL PERMITTING OR WORK FOR REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS.
- 21. CONTRACTOR SHALL LIMIT HEAVY EQUIPMENT ACCESS TO TWO LOCATIONS. CONTRACTOR IS RESPONSIBLE TO RESTORE/REPLACE THESE LOCATIONS TO NEW CONDITION, INCLUDING CONCRETE SURFACES.
- 22. NO SOILS REPORT IS AVAILABLE.
- 23. CONTRACTOR SHALL TERMINATE ALL UTILITY CONNECTIONS TO EXISTING BUILDING IN ACCORDANCE WITH THE VARIOUS AGENCIES REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH UTILITY TERMINATION.
- 24. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND WORK TO OBTAIN ANY PERMITS REQUIRED BY GOVERNING AGENCIES.
- 25. ADDITIVE ALTERNATE #1 IS FOR THE LIGHTING SYSTEM. AS PART OF THIS ITEM, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE LIGHTING SYSTEM AS REQUIRED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID FOR THE LIGHTING INCLUDES ONLY THE INSTALLATION OF TWO 2" CONDUITS FROM EXISTING PANEL "MDP" IN THE P.E. BUILDING TO THE TWO ELECTRICAL PULL BOXES.
- 26. ADDITIVE ALTERNATE #2 IS FOR THE ADDITIONAL COST REQUIRED TO PROVIDE AND INSTALL SOD INSTEAD OF HYDROSEEDING THE FIELD.



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IRRIGATION NOTES

- These Irrigation Notes are part of the irrigation Construction Documents package (hereafter referred to as CD's).
 Complete CD's shall include all of the following: Plan Drawings, Legend, Notes, Details and Specification Section.
 Contractor shall be responsible to obtain and be familiar with all components in the CD's package, all of which are necessary to correctly bid and build the irrigation system for this project.
- 2. Irrigation CD's are based on documents, plans or directions provided by others to the irrigation consultant.
- 3. The irrigation design is based on a minimum POC size, a minimum static pressure at the POC, and a minimum water volume at the POC. This design assumes a minimum of a 2" POC, ⊕ 125 PSI, and 75 GPM. Actual site conditions may vary from these parameters. Site conditions which vary from the POC size, pressure or volume may render the installation non-operable and or may require re-design.
- Irrigation design intent assumes a peak ET of 1.75" per week, that all of the irrigated area shall be watered in an 8
 hour watering window, placing 1/2" of water per application, with a 4 day per week watering schedule.
- 5. Utility locations & depths, final grades, hardscape features and or plantings may not be indicated within the irrigation CD's. Irrigation Contractor shall be responsible for review of other plans, and/or site verification of these items. Irrigation Contractor shall verify location of existing features or other site improvements that will affect or be affected by irrigation system installation. If any part of the CD's cannot be followed due to existing or proposed conditions contact the Owner Approved Representative (OAR) for instructions prior to commencing or proceeding with that work.
- Contractor shall self-verify material counts and square footages. Any quantities shown in Irrigation Legend are provided as courtesy Owner information only. Shown plan quantities shall take precedence over any listed legend quantities. Contractor shall be responsible to provide the larger quantity indicated.

- Contractor shall contact the local underground utility provider or locator services for utility location and identification 48 hours prior to any excavation on project site.
- Perform excavation in the vicinity of underground utilities and existing buildings, features or hardscapes with care; and if necessary, by hand. Contractor bears full responsibility for this work and disruption or damage shall be repaired immediately at no expense to the Owner.
- Exact locations of major irrigation components and routing of main line and wiring to be approved by the OAR in the field prior to installation. Irrigation main line and/or other components are shown schematically on plan for graphic clarity only. All Irrigation components shall be located in landscaped areas.
- 10. Irrigation plans may show Isolation Valves and or Remote Control Valves (RCV's) in groups and locations. Contractor shall place RCV's in logical groupings and locations as field conditions permit. All remote control valves and quick coupler valves shall be isolated from the main line via a manifold isolation valve as shown in details.
- 11. Quick coupler valves in landscaped areas shall be installed as close as possible to plan locations. Irrigation Contractor may locate quick coupler valves at his discretion. POC quick coupler may not be moved.
- 12. Contractor shall be responsible to ensure all sleeves necessary for main line, wire and lateral line are installed as needed, prior to hardscape features. Not all sleeving necessary to complete this project may be shown on plan. Portions of irrigation sleeves may have or may not have been previously installed by others. Coordinate location, installation and usage with General Contractor and or OAR.
- 13. Contractor shall note that same nozzle is used for full circle and part circle heads. Full circle head zones shall have twice as much time per zone on controller.

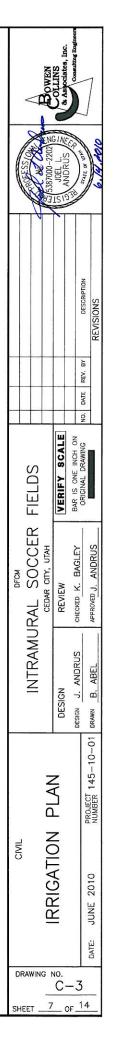
IRRIGATION SCHEDULE

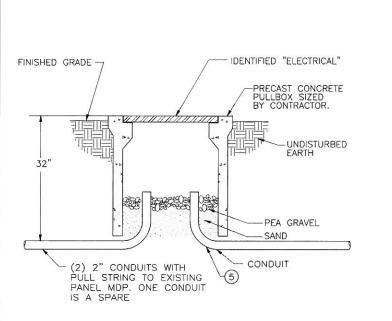
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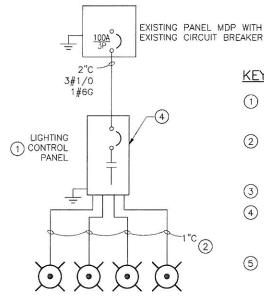
Valve Flow

- Valve Size

5YMBOL	MANUFACTURER/MODE/JDE5CRIPTION	QTY
66	Rain Bird 7005-55 Turf Rotor, 5" popup, adjustable and full circle, stanless steel neer	4
100	Ram Bird 7005-55 Turf Rotor, 5" popup, adjustable and full circle, stainless sted neer	67
5YM8OL	MANUFACTURER/MODE/JDESCRIPTION	QTY
•	Rain Bird PEB-PRS-D Electric Remote Control Value with Pressure Regulator	16
	Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover	3
X	Matco 200RTD Ductile Iron Epoxy Coated \$ Resilient Wedge	1
Ѿ	Rain Bird MV 200-PEB 2" Master Valve	1
0	Drain Valve Mueller Or.seal H-10288 3/4"	3
(BF)	Witans 975XL 2" RPA with strainer	1
24	Rain Bird ESP24-5AT-25 Venly model \$ accessories with Owner prior to ordering	1
(5)	Flow Sensor Data Industrial IR-220 F 2*	1
POC	Point of Connection 2°	1
	- Irngation Lateral Line: PVC Schedule 40	3,6771
	Irrigation Mainline: PVC Schedule 40	1,3241.f
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for imgation pipe. Pipe sleeve size shall allow for imgation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	146 U.S.





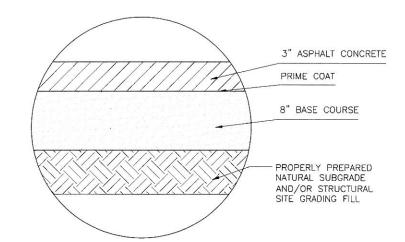


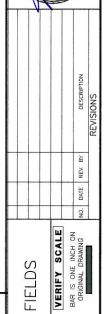
LIGHT POLES WITH 480 VOLT FIXTURES

AS SPECIFIED BY LIGHTING SUPPLIER

KEY NOTES:

- (1) LIGHTING CONTROL PANEL SHALL BE PROVIDED BY LIGHTING SUPPLIER IN ACCORDANCE WITH LIGHTING SPECIFICATION.
- CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE FOR AMPERAGE AND VOLTAGE DROP. SIZING SHALL BE REVIEWED BY ENGINEER BEFORE
- THE QUANTITY OF POLES AND THE NUMBER OF LIGHTS ON 3 EACH POLE WILL VARY BY LIGHTING MANUFACTURER.
- (4) CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) KVA SINGLE PHASE 480 V PRIMARY TO 120 V SECONDARY TRANSFORMER FOR LIGHTING CONTROLS. TRANSFORMER SHALL BE IN A NEMA-4 ENCLOSURE.
- ALL CONDUIT AND PULL STRING FROM EXISTING PANEL MDP TO ELECTRICAL PULL BOX IN THE FIELD SHALL BE INSTALLED AS PART OF BASE BID. ADDITIONAL WORK AND MATERIAL REQUIRED TO CONNECT TO EXISTING PANEL AND INSTALL LIGHTING SYSTEM AS SPECIFIED SHALL BE INCLUDED IN ADDITIVE ALTERNATE #1.





INTRAMURAL

DETAILS

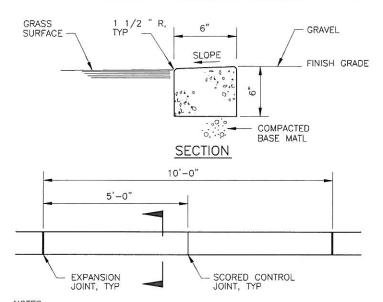
DRAWING NO.

D-1



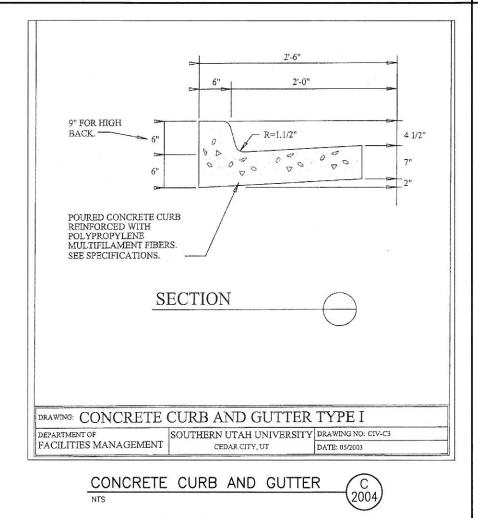


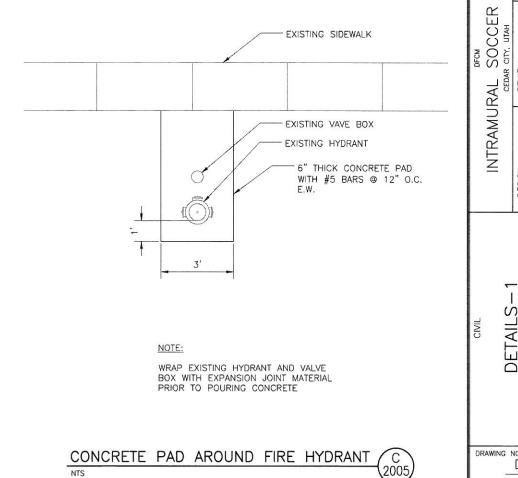
TYPICAL PULL BOX DETAIL AND ONE LINE DIAGRAM



- 1. EXPANSION JOINTS OF 1/2" PREMOLDED JOINT FILLER SHALL BE PLACED 1/4" BELOW FINISHED SURFACE OF CONCRETE.
- 2. DEPTH OF CONTROL JOINTS SHALL BE APPROXIMATELY ONE QUARTER OF CONCRETE SLAB THICKNESS, BUT NOT LESS THAN 1".
- ALL EXPOSED SURFACES OF CURB SHALL BE GIVEN A MORTAR BRUSH COAT CONSISTING OF ONE PART PORTLAND CEMENT, ONE PART SAND AND THEN TROWELED SMOOTH.







TYPICAL CURB & GUTTER REMOVAL & INSTALLATION WITHOUT PAVEMENT TIE-IN LIP OF NEW CURB & GUTTER TO BE 1/4" REMOVAL OF CONCRETE FROM PAY LINE TO BELOW EXISTING BACK OF CURB SHALL PAVEMENT BE AS SPECIFIED IN THE SPECIAL PROVISIONS OF THE CONTRACT SEE STANDARD PLAN CG-02-01 FOR EXISTING ASPHALT CURB & GUTTER EXTENT OF EXISTING **EXISTING CONCRETE** CONCRETE VARIES ASPHALT & CONC SEE DETAIL 'A' REMOVAL PAY LINE UNTREATED BASE COURSE SEAL JOINT WITH CRACK SEALANT FORM FACE OF CURB LIP FINISH TO 1/2" WITH A 16 GAUGE BY 3" RADIUS WIDE STEEL PLATE OF APPROPRIATE LENGTH OR AN APPROVED EQUAL MATERIAL. FORM SHALL STAY IN PLACE LONG ENOUGH TO ASSURE CONCRETE WILL MAINTAIN ITS SHAPE. DETAIL 'A'

DRAWING: CURB & GUTTER REMOVAL & INSTALLATION

DEPARTMENT OF FACILITIES MANAGEMENT

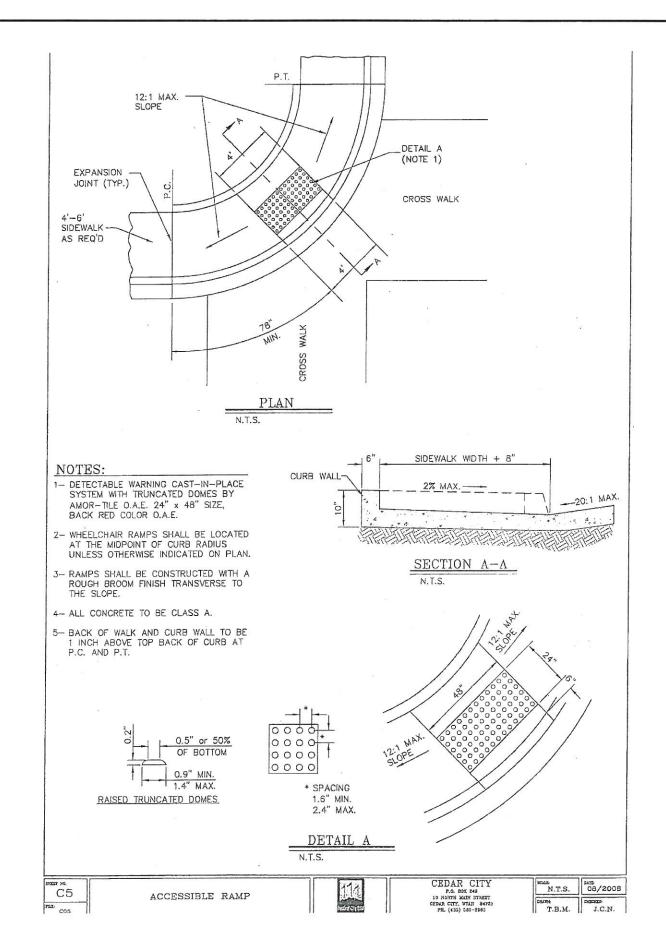
SOUTHERN UTAH UNIVERSITY DRAWING NO: CIV-MSC-8

CEDAR CITY, UT

DATE: 05/2003

CURB AND GUTTER





ADA SIDEWALK RAMP

DRAWING NO. D-2SHEET 9

FIELDS

SOCCER R CITY, UTAH

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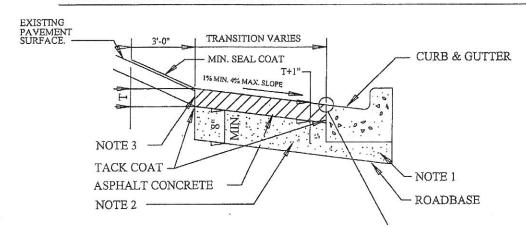
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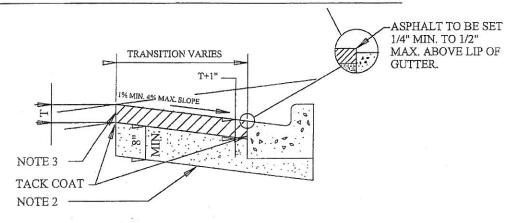
ETAIL

VERIFY

TYPICAL ASPHALT PAVEMENT TIE-IN



CASE 1 - POSITIVE STREET TIE-IN



CASE 2 - NEGATIVE STREET TIE-IN

NOTES:

- 1. MATCH EXISTING ROAD BASE OR 8" OF UNTREATED BASE COURSE MATERIAL MINIMUM.
- 2. USE UNTREATED BASE COURSE MATERIAL, EXCEPT WHERE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS 92% OF MAXIMUM DRY DENSITY (A.S.T.M. D-1557, METHOD D)
- 3. PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING & NEW ASPHALT SURFACES. SAWCUT JOINT IF EXISTING PAVEMENT EXCEEDS 3" IN THICKNESS, OR IF CONCRETE UNDERLIES ASPHALT PAVMENT.

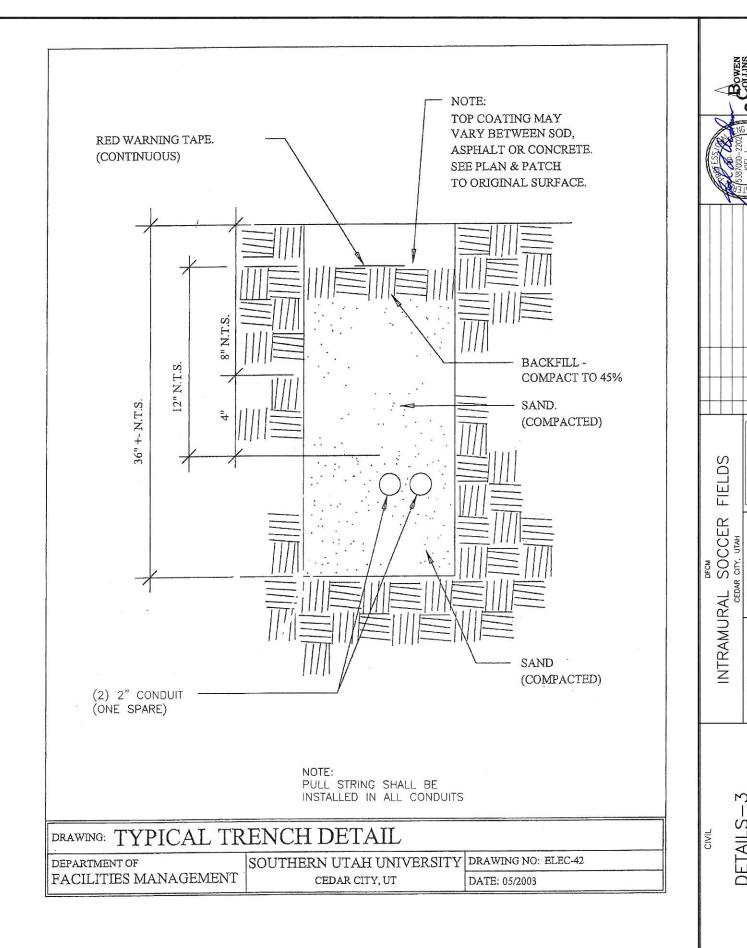
DRAWING:	TYPICAL A	SPHALT PAVEMENT TIE-IN

DEPARTMENT OF FACILITIES MANAGEMENT |SOUTHERN UTAH UNIVERSITY | DRAWING NO: CIV-MSC-7

CEDAR CITY, UT

DATE: 05/2003

TYPICAL ASPHALT TIE-IN



TYPICAL TRENCH DETAIL

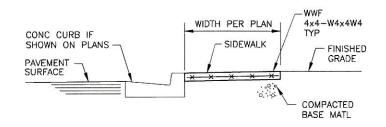
DETAILS

FIELDS

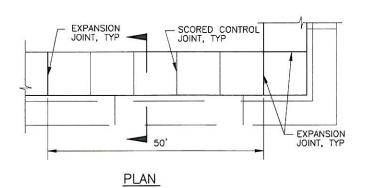
INTRAMURAL

DIP DRIVEWAY APPROACH USE CLASS 40 TYPE II HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING. SEE SPECIFICATIONS. 2 EDGE CONCRETE WITH 1/2 * RADIUS EDGING TOOL. 3 PLACE 1.2 " EXPANSION JOINT IN THE DRIVEWAY CENTERLINE IF "W" IS GREATER THAN 20" FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS IF WITH TOP SET FLUSH WITH TOP OF CONCRETE. 4. USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698) 5. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 9-0" FROM THE PROINT FOCKE OF THE GUTTER SHALL NOT EXCEED 15", REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED, BREAKIVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6"« MAX. CONCRETE SHALL BE MONOLITHIC CLASS 40 IN ACCORDANCE STANDARD SPECIFICATION 03000. PLAN STREET CROSS SLOPE SECTION DRAWING: DIP DRIVEWAY APPROACH DEPARTMENT OF SOUTHERN UTAH UNIVERSITY DRAWING NO: CIV-C7 FACILITIES MANAGEMENT CEDAR CITY, UT DATE: 05/2003

DIP DRIVEWAY APPROACH



SECTION



NOTES:

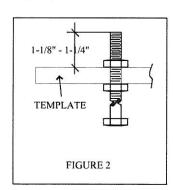
- USE MONOLITHIC CONSTRUCTION 4" THICK EXCEPT AT DRIVEWAYS WHERE THICKNESS SHALL BE 6" OR AS SHOWN ON PLANS.
- EXPANSION JOINTS OF 1/2" PREMOLDED JOINT FILLER SHALL BE PLACED AT BACK OF CURB AND AT INTERSECTIONS WITH PERPENDICULAR SIDEWALKS OR DRIVEWAYS.
- PLACE CONTROL JOINTS AT INTERVALS EQUAL TO 1 TO 1 1/2 TIMES THE WIDTH OF 3. THE SIDEWALK UNIFORMLY PLACED ALONG LENGTH OF SIDEWALK, DEPTH OF JOINT SHALL BE 1" MINIMUM.
- EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL ROUND EDGES AT EXPANSION 4. JOINTS TO A RADIUS OF 1/2".

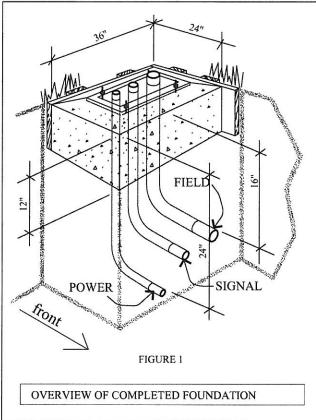


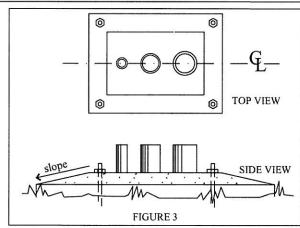
CONCRETE SIDEWALK

NOTES:

- Prepare a hole for foundation and concuit.
- 2. See FIGURE 1. Position sweep ell conduit sections in hole as shown. Cover conduit ends with tape to seal out dirt and debris. Backfill soil to about 12 inches below finished grade lever.
- 3. Use 5/16 x 4-1/2" mounting bolts and 5/16-18 hex nuts supplied, prepare plastic mounting template as shown in FIGURE 2. Threaded end bolts should protrude 1-1/8" to 1-1/4" from top surface of template.
- 4. Pour concrete into hole and smooth with trowel.
- Press mounting template into concrete until flush.
 Center template with conduit as shown to prevent pedestal\conduit interference.
 see FIGURE 3.
- To prevent pooling at base of pedestal, finish foundation with gradual slope away from mounting template.

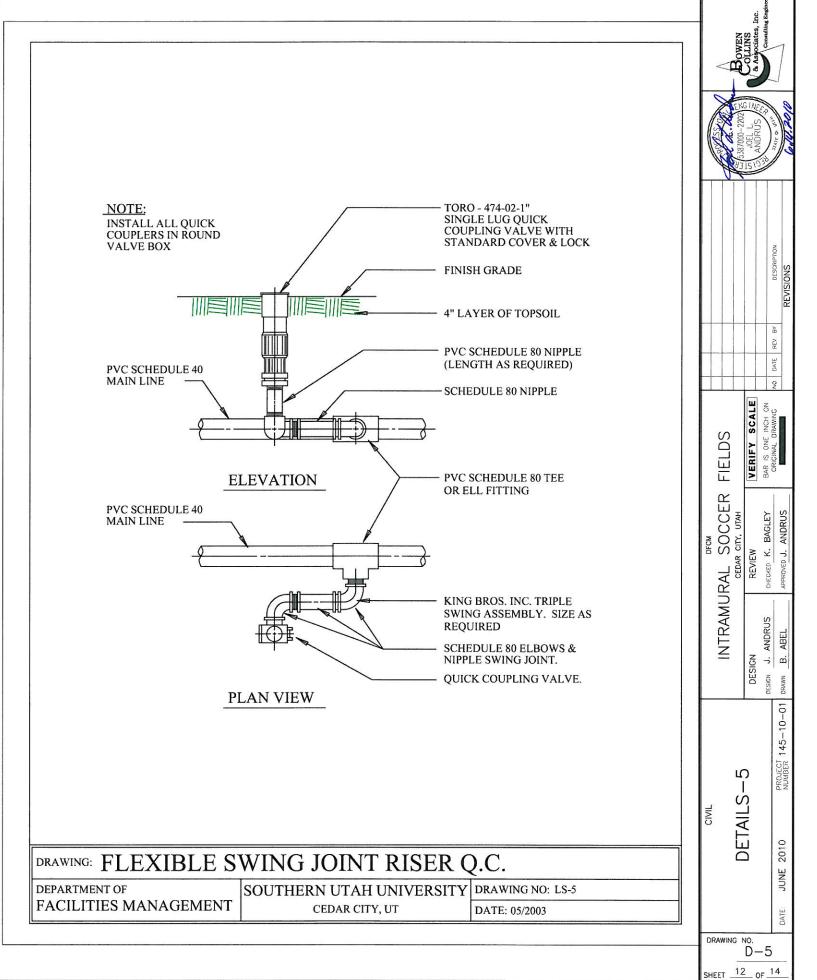


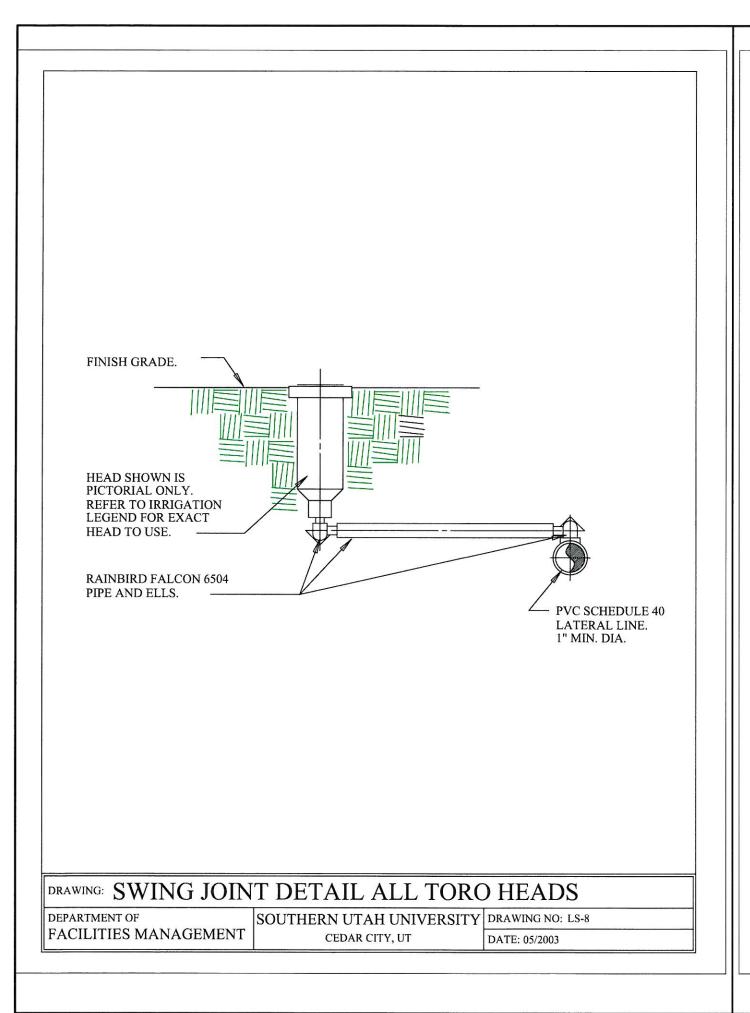


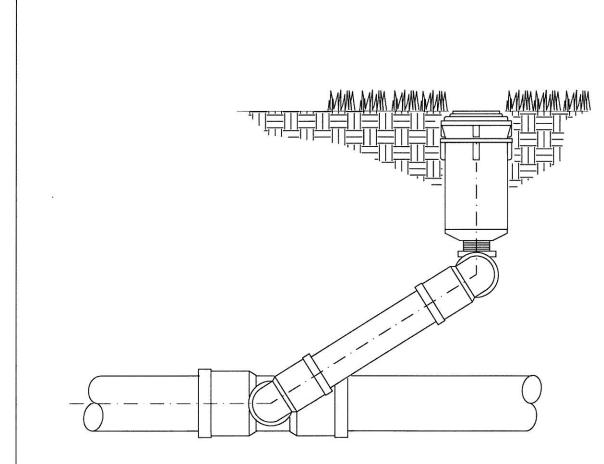


PEDESTAL INSTALLATION FOR TORO TC CONTROLLER

DRAWING: AUTOMATIC CLOCK INSTALLATION							
	SOUTHERN UTAH UNIVERSITY	DRAWING NO: LS-4					
FACILITIES MANAGEMENT	CEDAR CITY, UT	DATE: 05/2003					







TYPICAL HEAD INSTALLATION
FOR 7 GPM OR MORE

DRAWING: TYP. HEAD INSTALLATION FOR 7 GPM OR MORE

DEPARTMENT OF SOUTHERN UTAH UNIVERSITY DRAWING NO: LS-9 CEDAR CITY, UT DATE: 05/2003

FIELDS DETAILS-

DRAWING NO.

D-6

SHEET 13 OF 14

